CRF Errors Corrected by the STIC Systems Branch

Serial Number: 10/018,311A ENTERED

☐ Changed a file from non-ASCII to ASCII

☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.

☐ Edited a format error in the Current Application Data section, specifically:
_____

☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other _____ .

☐ Added the mandatory heading and subheadings for "Current Application Data".

☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.

☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically:
_____

☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were:
_____

☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:
_____

☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.

☐ Inserted colons after headings/subheadings. Headings edited included:
_____

☐ Deleted extra, invalid, headings used by an applicant, specifically:
_____

☑ Deleted: ☑ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as_____ .

☐ Inserted mandatory headings, specifically: _____

☐ Corrected an obvious error in the response, specifically:
_____

☐ Edited identifiers where upper case is used but lower case is required, or vice versa.

☐ Corrected an error in the Number of Sequences field, specifically:
_____

☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.

☐ Deleted *ending* stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: _____

☐ Other:
_____
_____
_____

*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

3/1/95

PCT10

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/018,311A

DATE: 06/11/2002
TIME: 19:42:00

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF3\06112002\J018311A.raw

```
   3 <110> APPLICANT: MIYATA, Toshio
   4        KUROKAWA, Kiyoshi
   6 <120> TITLE OF INVENTION: Meg-3 protein
   8 <130> FILE REFERENCE: 2605/101
  10 <140> CURRENT APPLICATION NUMBER: 10/018,311A
C--> 11 <141> CURRENT FILING DATE: 2002-04-19
  13 <160> NUMBER OF SEQ ID NOS: 8
  15 <170> SOFTWARE: FastSEQ for Windows Version 4.0
  17 <210> SEQ ID NO: 1
  18 <211> LENGTH: 3768
  19 <212> TYPE: DNA
  20 <213> ORGANISM: Homo sapiens
  22 <220> FEATURE:
  23 <221> NAME/KEY: misc_feature
  24 <222> LOCATION: 3395, 3437, and 3440
  25 <223> OTHER INFORMATION: N=G,A,C or T
  27 <400> SEQUENCE: 1
  28 caggaactgg gccagctccg gtcccttcct tttggggctc tcactctgga gg atg ggg 58
  29                                                              Met Gly
  30                                                                1
  32 tgg atg gga gaa aaa acc ggg aag atc ctg acg gag ttc ctc cag ttc 106
  33 Trp Met Gly Glu Lys Thr Gly Lys Ile Leu Thr Glu Phe Leu Gln Phe
  34           5               10              15
  36 tat gaa gac cag tat ggc gtg gct ctc ttc aac agc atg cgc cat gag 154
  37 Tyr Glu Asp Gln Tyr Gly Val Ala Leu Phe Asn Ser Met Arg His Glu
  38      20              25              30
  40 att gag ggc acg ggg ctg ccg cag gcc cag ctg ctc tgg cgc aag gtg 202
  41 Ile Glu Gly Thr Gly Leu Pro Gln Ala Gln Leu Leu Trp Arg Lys Val
  42 35              40              45              50
  44 cca ctg gac gag cgc atc gtc ttc tcg ggg aac ctc ttc cag cac cag 250
  45 Pro Leu Asp Glu Arg Ile Val Phe Ser Gly Asn Leu Phe Gln His Gln
  46               55              60              65
  48 gag gac agc aag aag tgg aga aac cgc ttc agc ctc gtg ccc cac aac 298
  49 Glu Asp Ser Lys Lys Trp Arg Asn Arg Phe Ser Leu Val Pro His Asn
  50           70              75              80
  52 tac ggg ctg gtg ctc tac gaa aac aaa gcg gcc tat gag cgg cag gtc 346
  53 Tyr Gly Leu Val Leu Tyr Glu Asn Lys Ala Ala Tyr Glu Arg Gln Val
  54           85              90              95
  58 cca cca cga gcc gtc atc aac agt gca ggc tac aaa atc ctc acg tcc 394
  59 Pro Pro Arg Ala Val Ile Asn Ser Ala Gly Tyr Lys Ile Leu Thr Ser
  60      100             105             110
  62 gtg gac caa tac ctg gag ctc att ggc aac tcc tta cca ggg acc acg 442
  63 Val Asp Gln Tyr Leu Glu Leu Ile Gly Asn Ser Leu Pro Gly Thr Thr
```

RAW SEQUENCE LISTING   DATE: 06/11/2002
PATENT APPLICATION: US/10/018,311A   TIME: 19:42:00

Input Set : A:\PTO.AMC.txt
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```
64 115                   120                   125                   130
66 gca aag tcg ggc agt gcc ccc atc ctc aag tgc ccc aca cag ttc ccg    490
67 Ala Lys Ser Gly Ser Ala Pro Ile Leu Lys Cys Pro Thr Gln Phe Pro
68                   135                   140                   145
70 ctc atc ctc tgg cat cct tat gcg cgt cac tac tac ttc tgc atg atg    538
71 Leu Ile Leu Trp His Pro Tyr Ala Arg His Tyr Tyr Phe Cys Met Met
72                   150                   155                   160
74 aca gaa gcc gag cag gac aag tgg cag gct gtg ctg cag gac tgc atc    586
75 Thr Glu Ala Glu Gln Asp Lys Trp Gln Ala Val Leu Gln Asp Cys Ile
76         165                   170                   175
78 cgg cac tgc aac aat gga atc cct gag gac tcc aag gta gag ggc cct    634
79 Arg His Cys Asn Asn Gly Ile Pro Glu Asp Ser Lys Val Glu Gly Pro
80         180                   185                   190
82 gcg ttc aca gat gcc atc cgc atg tac cga cag tcc aag gag ctg tac    682
83 Ala Phe Thr Asp Ala Ile Arg Met Tyr Arg Gln Ser Lys Glu Leu Tyr
84 195                   200                   205                   210
86 ggc acc tgg gag atg ctg tgt ggg aac gag gtg cag atc ctg agc aac    730
87 Gly Thr Trp Glu Met Leu Cys Gly Asn Glu Val Gln Ile Leu Ser Asn
88                   215                   220                   225
90 ctg gtg atg gag gag ctg ggc cct gag ctg aag gca gag ctc ggc ccg    778
91 Leu Val Met Glu Glu Leu Gly Pro Glu Leu Lys Ala Glu Leu Gly Pro
92                   230                   235                   240
94 cgg ctg aag ggg aaa ccg cag gag cgg cag cgg cag tgg atc cag atc    826
95 Arg Leu Lys Gly Lys Pro Gln Glu Arg Gln Arg Gln Trp Ile Gln Ile
96         245                   250                   255
98 tcg gac gcc gtg tac cac atg gtg tac gag cag gcc aag gcg cgc ttc    874
99 Ser Asp Ala Val Tyr His Met Val Tyr Glu Gln Ala Lys Ala Arg Phe
100     260                   265                   270
102 gag gag gtg ctg tcc aag gtg cag cag gtg cag ccg gcc atg cag gcc   922
103 Glu Glu Val Leu Ser Lys Val Gln Gln Val Gln Pro Ala Met Gln Ala
104 275                   280                   285                   290
106 gtc atc cga act gac atg gac caa att atc acc tcc aag gag ctc ctt   970
107 Val Ile Arg Thr Asp Met Asp Gln Ile Ile Thr Ser Lys Glu Leu Leu
108                   295                   300                   305
110 gcc agc aag atc cga gcc ttc atc ctc ccc aag gca gag gtg tgc gtg  1018
111 Ala Ser Lys Ile Arg Ala Phe Ile Leu Pro Lys Ala Glu Val Cys Val
112                   310                   315                   320
115 cgg aac cat gtc cag ccc tac atc cca tcc atc ctg gag gcc ctg atg  1066
116 Arg Asn His Val Gln Pro Tyr Ile Pro Ser Ile Leu Glu Ala Leu Met
117         325                   330                   335
119 gtc ccc acc agc cag ggc ttc act gag gtg cga gat gtc ttc ttc aag  1114
120 Val Pro Thr Ser Gln Gly Phe Thr Glu Val Arg Asp Val Phe Phe Lys
121     340                   345                   350
123 gag gtc acg gac atg aac ctg aac gtc atc aac gag ggc ggc att gac  1162
124 Glu Val Thr Asp Met Asn Leu Asn Val Ile Asn Glu Gly Gly Ile Asp
125 355                   360                   365                   370
127 aag ctg ggc gag tac atg gag aag ctg tcc cgg ctg gcg tac cac ccc  1210
128 Lys Leu Gly Glu Tyr Met Glu Lys Leu Ser Arg Leu Ala Tyr His Pro
129                   375                   380                   385
```

```
131 ctg aag atg cag agc tgc tat gag aag atg gag tcg ctg cga ctg gac   1258
132 Leu Lys Met Gln Ser Cys Tyr Glu Lys Met Glu Ser Leu Arg Leu Asp
133         390             395             400
135 ggg ctg cag cag cga ttt gat gtg tcc agc acg tcc gtg ttc aag cag   1306
136 Gly Leu Gln Gln Arg Phe Asp Val Ser Ser Thr Ser Val Phe Lys Gln
137         405             410             415
139 cga gcc cag atc cac atg cgg gag caa atg gac aat gcc gtg tat acg   1354
140 Arg Ala Gln Ile His Met Arg Glu Gln Met Asp Asn Ala Val Tyr Thr
141     420             425             430
143 ttc gag acc ctc ctg cac cag gag ctg ggg aag ggg ccc acc aag gag   1402
144 Phe Glu Thr Leu Leu His Gln Glu Leu Gly Lys Gly Pro Thr Lys Glu
145 435             440             445                 450
147 gag ctg tgc aag tcc atc cag cgg gtc ctg gag cgg gtg ctg aaa aaa   1450
148 Glu Leu Cys Lys Ser Ile Gln Arg Val Leu Glu Arg Val Leu Lys Lys
149             455             460             465
151 tac gac tac gac agc agc tct gtg cgg aag agg ttc ttc cgg gag gcg   1498
152 Tyr Asp Tyr Asp Ser Ser Ser Val Arg Lys Arg Phe Phe Arg Glu Ala
153         470             475             480
155 ctg ctg cag atc agc atc ccg ttc ctg ctc aag aag ctg gcc cct acc   1546
156 Leu Leu Gln Ile Ser Ile Pro Phe Leu Leu Lys Lys Leu Ala Pro Thr
157         485             490             495
159 tgc aag tcg gag ctg ccc cgg ttc cag gag ctg atc ttc gag gac ttt   1594
160 Cys Lys Ser Glu Leu Pro Arg Phe Gln Glu Leu Ile Phe Glu Asp Phe
161     500             505             510
163 gcc agg ttc atc ctg gtg gaa aac acg tac gag gag gtg gtg ctg cag   1642
164 Ala Arg Phe Ile Leu Val Glu Asn Thr Tyr Glu Glu Val Val Leu Gln
165 515             520             525                 530
167 acc gtc atg aag gac atc ctg cag gct gtg aag gag gcc gcg gtg cag   1690
168 Thr Val Met Lys Asp Ile Leu Gln Ala Val Lys Glu Ala Ala Val Gln
169             535             540             545
172 agg aag cac aac ctc tac cgg gac agc atg gtc atg cac aac agc gac   1738
173 Arg Lys His Asn Leu Tyr Arg Asp Ser Met Val Met His Asn Ser Asp
174             550             555             560
176 ccc aac ctg cac ctg ctg gcc gag ggc gcc ccc atc gac tgg ggc gag   1786
177 Pro Asn Leu His Leu Leu Ala Glu Gly Ala Pro Ile Asp Trp Gly Glu
178         565             570             575
180 gag tac agc aac agc ggc ggg ggc ggc agc ccc agc ccc agc acc ccg   1834
181 Glu Tyr Ser Asn Ser Gly Gly Gly Gly Ser Pro Ser Pro Ser Thr Pro
182     580             585             590
184 gag tca gcc acc ctc tcg gaa aag cga cgg cgc gcc aag cag gtg gtc   1882
185 Glu Ser Ala Thr Leu Ser Glu Lys Arg Arg Arg Ala Lys Gln Val Val
186 595             600             605                 610
188 tct gtg gtc cag gat gag gag gtg ggg ctg ccc ttt gag gct agc cct   1930
189 Ser Val Val Gln Asp Glu Glu Val Gly Leu Pro Phe Glu Ala Ser Pro
190             615             620             625
192 gag tca cca cca cct gcg tcc ccg gac ggt gtc act gag atc cga ggc   1978
193 Glu Ser Pro Pro Pro Ala Ser Pro Asp Gly Val Thr Glu Ile Arg Gly
194             630             635             640
196 ctg ctg gcc caa ggt ctg cgg cct gag agc ccc cca cca gcc ggc ccc   2026
```

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PATENT APPLICATION: US/10/018,311A   TIME: 19:42:00

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```
197 Leu Leu Ala Gln Gly Leu Arg Pro Glu Ser Pro Pro Pro Ala Gly Pro
198         645             650             655
200 ctg ctc aac ggg gcc ccc gct ggg gag agt ccc cag cct aag gcc gcc  2074
201 Leu Leu Asn Gly Ala Pro Ala Gly Glu Ser Pro Gln Pro Lys Ala Ala
202         660             665             670
204 ccc gag gcc tcc tcg ccg cct gcc tca ccc ctc cag cat ctc ctg cct  2122
205 Pro Glu Ala Ser Ser Pro Pro Ala Ser Pro Leu Gln His Leu Leu Pro
206 675             680             685             690
208 gga aag gct gtg gac ctt ggg ccc ccc aag ccc agc gac cag gag act  2170
209 Gly Lys Ala Val Asp Leu Gly Pro Pro Lys Pro Ser Asp Gln Glu Thr
210         695             700             705
212 gga gag cag gtg tcc agc ccc agc agc cac ccc gcc ctc cac acc acc  2218
213 Gly Glu Gln Val Ser Ser Pro Ser Ser His Pro Ala Leu His Thr Thr
214         710             715             720
216 acc gag gac agt gca ggg gtg cag act gag ttc taggccagtg ggtccctgac  2271
217 Thr Glu Asp Ser Ala Gly Val Gln Thr Glu Phe
218         725             730
220 tgctgcacat ggcacaggcc gttcccttcc ggacccaggc aggctcagct ctggggaggg  2331
222 caccctggtc tgtgccttgt gggtggaggc ggggcagggc tgtgtggcac cgccagggag  2391
224 cgggcccacc tgagtcactt tattgggttc agtcaacact ttcttgctcc ctgttttctc  2451
226 ttctgtggga tgatctcaga tgcaggggct ggttttgggg ttttcctgct tgtgccaagg  2511
228 gctggacact gctgggggc tggaaagccc ctcccttcct gtccttctgt ggcctccatc  2571
230 ccctcatggg tgctgccatc cttcctggag agagggaggt gaaagctggt gtgagcccag  2631
232 tgggttcccg cccactcacc caggagctgg ctgggccagg accgggagag ggagcactgc  2691
234 tgccctcctg gccctgctcc ttccgcagtt aggggtggac cgagcctcgc tttccccact  2751
236 gttctggagg gaaggggaag gaggggtct tcaggctgga gccaggctgg gggtgctggg  2811
238 tggagagatg agatttaggg ggtgcctcat ggggtgggca ggcctggggt gaaatgagaa  2871
240 aggcccagaa cgtgcaggtc tgcggagggg aagtgtcctg agtgaaggag gggaccccat  2931
242 cctggggatg ctgggagtga gtgagtgaga tggctgagtg agggttatgg ggagcctgag  2991
244 gtttttatggg cctgtgtatc cccttctccc ggccccagcc tgcctccctc ctgcccgcct  3051
246 ggcccacagg tctccctctg gtccctgtcc ctctggtggt tggggatgga gcggcagcaa  3111
248 ggggtgtaat ggggctgggt tctgtcttct acaggccacc ccgaggtcct cagtggttgc  3171
250 ctggggagcc ggacggggct cctgaggggt acaggttggg tgggccctcc ctgagggtct  3231
252 ggggtcaggc tttggcctct gctgcctctc agtcaccaag tcacctccct ctgaaaatcc  3291
254 agtcccttct ttggatgtcc ttgtgagtca ctctgggcct ggctgtcgtc cctcctcagc  3351
256 ttcttgttcc tgggacaagg gtcaagccag gatgggccca ggcntgggat ccccaccccc  3411
258 aggaccccac aggccccctc ccctgntgnt ttgcgggggg cagggcagaa atggactcct  3471
260 tttgggtccc cgaggtgggg tcccctccca gccctgcatc ctccgtgccc tagacctgct  3531
262 ccccagagga ggggccttga cccacaggaa gtgtggtggc gcctggcaat cagggacccc  3591
264 cagctgccgc agccctggtt tttggcgcat ctttttccctc ttgtcccgaa gatttgcgcc  3651
266 tttagtgcct tttgaggggt tcccatcatc cctccctgat attgtattga aaatattatg  3711
268 cacactgttc atgcttttac taatcaataa acgctttatt taaaaaaaaa aaaaaa      3768
271 <210> SEQ ID NO: 2
272 <211> LENGTH: 733
273 <212> TYPE: PRT
274 <213> ORGANISM: Homo sapiens
276 <400> SEQUENCE: 2
277 Met Gly Trp Met Gly Glu Lys Thr Gly Lys Ile Leu Thr Glu Phe Leu
278   1               5               10              15
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```
280 Gln Phe Tyr Glu Asp Gln Tyr Gly Val Ala Leu Phe Asn Ser Met Arg
281             20                  25                  30
283 His Glu Ile Glu Gly Thr Gly Leu Pro Gln Ala Gln Leu Leu Trp Arg
284         35                  40                  45
286 Lys Val Pro Leu Asp Glu Arg Ile Val Phe Ser Gly Asn Leu Phe Gln
287     50                  55                  60
289 His Gln Glu Asp Ser Lys Lys Trp Arg Asn Arg Phe Ser Leu Val Pro
290 65                  70                  75                  80
292 His Asn Tyr Gly Leu Val Leu Tyr Glu Asn Lys Ala Ala Tyr Glu Arg
293             85                  90                  95
295 Gln Val Pro Pro Arg Ala Val Ile Asn Ser Ala Gly Tyr Lys Ile Leu
296             100                 105                 110
298 Thr Ser Val Asp Gln Tyr Leu Glu Leu Ile Gly Asn Ser Leu Pro Gly
299         115                 120                 125
301 Thr Thr Ala Lys Ser Gly Ser Ala Pro Ile Leu Lys Cys Pro Thr Gln
302     130                 135                 140
304 Phe Pro Leu Ile Leu Trp His Pro Tyr Ala Arg His Tyr Tyr Phe Cys
305 145                 150                 155                 160
307 Met Met Thr Glu Ala Glu Gln Asp Lys Trp Gln Ala Val Leu Gln Asp
308             165                 170                 175
310 Cys Ile Arg His Cys Asn Asn Gly Ile Pro Glu Asp Ser Lys Val Glu
311             180                 185                 190
313 Gly Pro Ala Phe Thr Asp Ala Ile Arg Met Tyr Arg Gln Ser Lys Glu
314         195                 200                 205
316 Leu Tyr Gly Thr Trp Glu Met Leu Cys Gly Asn Glu Val Gln Ile Leu
317     210                 215                 220
319 Ser Asn Leu Val Met Glu Glu Leu Gly Pro Glu Leu Lys Ala Glu Leu
320 225                 230                 235                 240
322 Gly Pro Arg Leu Lys Gly Lys Pro Gln Glu Arg Gln Arg Gln Trp Ile
323             245                 250                 255
325 Gln Ile Ser Asp Ala Val Tyr His Met Val Tyr Glu Gln Ala Lys Ala
326             260                 265                 270
328 Arg Phe Glu Glu Val Leu Ser Lys Val Gln Gln Val Gln Pro Ala Met
329         275                 280                 285
331 Gln Ala Val Ile Arg Thr Asp Met Asp Gln Ile Ile Thr Ser Lys Glu
332     290                 295                 300
334 Leu Leu Ala Ser Lys Ile Arg Ala Phe Ile Leu Pro Lys Ala Glu Val
335 305                 310                 315                 320
337 Cys Val Arg Asn His Val Gln Pro Tyr Ile Pro Ser Ile Leu Glu Ala
338             325                 330                 335
340 Leu Met Val Pro Thr Ser Gln Gly Phe Thr Glu Val Arg Asp Val Phe
341             340                 345                 350
343 Phe Lys Glu Val Thr Asp Met Asn Leu Asn Val Ile Asn Glu Gly Gly
344         355                 360                 365
346 Ile Asp Lys Leu Gly Glu Tyr Met Glu Lys Leu Ser Arg Leu Ala Tyr
347     370                 375                 380
349 His Pro Leu Lys Met Gln Ser Cys Tyr Glu Lys Met Glu Ser Leu Arg
350 385                 390                 395                 400
352 Leu Asp Gly Leu Gln Gln Arg Phe Asp Val Ser Ser Thr Ser Val Phe
```

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 06/11/2002
PATENT APPLICATION: US/10/018,311A   TIME: 19:42:01

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF3\06112002\J018311A.raw

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 3395,3437,3440